



Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>		<u>Complete if Known</u>			
		Application Number	10/663,024		
		Filing Date	September 15, 2003		
		First Named Inventor	Khalil Amine et al.		
		Art Unit	1745		
		Examiner Name	N/A		
Sheet	1	of	7	Attorney Docket number	Q201-US1

US PATENT DOCUMENTS

Examiner Initials	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
	Number - Kind Code		
	US-3,172,899	03-09-1965	Bailey
	US-3,530,159	09-22-1970	Guinet et al.
	US- 3,734,876	05-22-1973	Chu
	US- 4,259,467	03-31-1981	Keogh et al.
	US-4,830,939	05-16-1989	Lee et al.
	US-4,849,856	07-18-1989	Funari et al.
	US- 4,908,283	03-13-1990	Takahashi et al.
	US-5,037,712	08-06-1991	Shackle et al.
	US-5,112,512	05-12-1992	Nakamura
	US-5,272,021	12-21-1993	Asai et al.
	US-5,300,375	04-05-1994	Chaloner-Gill
	US-5,362,493	11-08-1994	Skotheim et al.
	US-5,419,984	05-30-1995	Chaloner-Gill et al.
	US-5,475,127	12-12-1995	Klein et al.
	US-5,538,812	07-23-1996	Lee et al.
	US- 5,593,787	01-14-1997	Dauth et al.
	US-5,609,974	03-11-1997	Sun
	US-5,633,098	05-27-1997	Narang et al.
	US-5,690,702	11-25-1997	Skotheim et al.
	US-5,700,300	12-23-1997	Jensen et al.
	US-5,731,104	03-24-1998	Ventura et al.
	US-5,753,389	05-19-1998	Gan et al.
	US-5,772,934	06-30-1998	MacFadden
	US-5,882,812	03-16-1999	Visco et al.
	US-5,885,733	05-23-1999	Ohsawa et al.
	US- 5,919,587	07-06-1999	Mukherjee et al.
	US- 5,961,672	10-05-1999	Skotheim et al.
	US- 6,013,393	01-11-2000	Taniuchi et al.
	US- 6,015,638	01-18-2000	Ventura et al.
	US- 6,124,062	09-26-2000	Horie et al.
	US-6,168,885 B1	01-02-2001	Narang et al.
	US-6,181,545 B1	01-30-2001	Amatucci et al.
	US-6,248,481 B1	06-19-2001	Visco et al.
	US- 6,252,762 B1	06-26-2001	Amatucci
	US- 6,337,383 B1	01-08-2002	West et al.
	US-2002/0028388 A1	03-07-2002	Lee
	US-2002/0051911 A1	05-02-2002	Okada
	US- 6,447,952 B1	09-10-2002	Spiegel et al.
	US-6,482,912 B2	11-19-2002	Boudjouk et al.
	US-6,495,287 B1	12-17-2002	Kolb et al.
	US-2002/0192554 A1	12-19-2002	Woo et al.
	US-2003/0036003 A1	02-20-2003	Shchori et al.
	US-2003/0099884 A1	05-29-2003	Chiang et al.

Examiner Signature		Date Considered	
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	Number – Kind Code		
	US-6,573,009 B1	06-03-2003	Noda et al.
	US-2003/0104282 A1	06-05-2003	Xing et al.
	US-6,610,109 B2	08-26-2003	Noh
	US-6,653,015 B2	11-25-2003	Yoshida et al.
	US-2003/0180624 A1	09-25-2003	Oh et al.
	US-2003/0180625 A1	09-25-2003	Oh et al.
	US-2003/0198869 A1	10-23-2003	West et al.

FOREIGN PATENT DOCUMENTS

Examiner Initials	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	English Abstract	Machine Translation	Entire Document
	Office	Number	Kind					
	JP	57-034662	✓	02-25-1982	Hitachi Maxell Ltd	✓		
	JP	57-034661	✓	02-25-1982	Hitachi Maxell Ltd	✓		
	JP	57-080670	✓	05-20-1982	Yuasa Battery Co Ltd	✓		
	JP	57-111957	✓	07-12-1982	Toshiba Corp	✓		
	JP	57-176669	✓A2	10-30-1982	Toshiba Battery Co. Ltd.	✓		
	JP	59-224072	✓A2	12-15-1984	NEC Corp	✓		✓
	JP	60-195877	✓	10-04-1985	NEC Corp	✓		✓
	JP	60-216461	✓	10-29-1985	NEC Corp	✓		✓
	JP	61-288374	✓	12-18-1986	Matsushita Electric Ind Co Ltd	✓		
	JP	62-209169	✓A2	09-14-1987	Sumitomo Electric	✓		✓
	JP	63-010466	✓	01-18-1988	Sanyo Electric Co Ltd	✓		✓
	JP	63-310569	✓	12-19-1988	Matsushita Electric Ind Co Ltd	✓		✓
	JP	02-080462	✓	03-20-1990	Toray Dow Corning Co LTD	✓		✓
	JP	02-262274	✓	10-25-1990	Matsushita Electric Ind Co Ltd	✓		✓
	JP	02-291603	✓	12-03-1990	Hitachi Maxell Ltd	✓		
	JP	03-139566	✓	06-13-1991	Toray Dow Corning Silicone Co LTD	✓		✓
	EP	0 450 981	✓A1	10-09-1991	Ultracell Incorporated			✓
	JP	60-052893	✓A2	07-31-1992	Mitsubishi Cable	✓		✓
	EP	0 525 728	✓A1	02-03-1993	Dow Corning Toray Silicone Company, Limited			✓
	JP	05-036441	✓	02-12-1993	Toray Dow Corning Silicone Co Ltd	✓	✓	✓
	JP	05-290616	✓	11-05-1993	Mitsubishi Cable Ind Ltd	✓	✓	✓
	EP	0 581 296	✓A2	02-02-1994	Dow Corning Toray Silicone Co., Ltd.			✓
	EP	0 581 296	✓A3	02-02-1994	Dow Corning Toray Silicone Co., Ltd.			✓
	JP	07-320782	✓	12-08-1995	Sanyo Electric Co Ltd	✓	✓	✓
	JP	08-078053	✓A2	03-22-1996	Ricoh Co Ltd	✓	✓	✓
	WO	96/21953	✓	07-18-1996	SRI International			✓
	JP	09-306544	✓	11-28-1997	Toshiba Corp	✓	✓	✓

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FOREIGN PATENT DOCUMENTS

Examiner Initials	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	English Abstract	Machine Translation	Entire Document
	Office	Number	Kind					
	JP	11-214032	A2	01-26-1998	Sony Corp	✓	✓	✓
	WO	98/07729	A1	02-26-1998	Merck Patent GmbH			
	EP	0 922 049	B1	02-26-1998	Merck Patent GmbH			
	JP	10-172615	A2	06-26-1998	Toshiba Battery Co. Ltd.	✓	✓	✓
	EP	0 932 215	A1	01-25-1999	Sony Corporation			✓
	JP	11-185804		07-09-1999	Toyama Yakuhi Kogyo KK	✓	✓	✓
	EP	0 796 511	B1	08-18-1999	SRI International			✓
	JP	11-238523		08-31-1999	Mitsubishi Paper Mills Ltd			✓
	JP	11-302383		11-02-1999	Kanegafuchi Chem Ind Co Ltd	✓		✓
	JP	11-302384	A2	11-02-1999	Kanegafuchi Chem	✓		
	JP	11-306857	A2	11-05-1999	Kanegafuchi Chem ind Co Ltd	✓		✓
	JP	11-306856	A2	11-05-1999	Kanegafuchi Chem	✓		✓
	WO	00/00495	A1	01-06-2000	Metallgesellschaft Aktiengesellschaft			
	WO	00/08654		02-17-2000	Sony Corporation			✓
	JP	2000-058123		02-25-2000	Sony Corp	✓	✓	✓
	WO	00/25323	A1	05-04-2000	Kaneka Corporation			
	JP	2000-154254	A2	06-06-2000	Mitsubishi Paper Mills Ltd Nippon Unicar Co Ltd	✓	✓	✓
	EP	1 024 502	A1	08-02-2000	Sony Corporation			✓
	JP	2000-222939	A2	08-11-2000	Sony Corp	✓	✓	✓
	JP	2000-277152	A2	10-06-2000	Hitachi Ltd.	✓	✓	✓
	JP	2001-068115		03-16-2001	Hitachi Chem Co Ltd	✓	✓	✓
	JP	2001-110455	A2	04-20-2001	Sony Corp	✓	✓	✓
	EP	0 932 215	B1	05-16-2001	Sony Corporation			✓
	JP	2001-185165	A2	07-06-2001	Kyocera Corp	✓	✓	✓
	WO	01/73884	A1	10-04-2001	NGK Insulators, LTD			✓
	JP	2001-283913		10-12-2001	Kyocera Corp	✓	✓	✓
	JP	2001-283907	A2	10-12-2001	NGK Insulators Ltd	✓	✓	✓
	WO	01/96446	A1	12-20-2001	Arizona Board of Regents			
	WO	01/99209	A2	12-27-2001	Arizona Board of Regents			
	JP	2002-063936	A2	02-28-2002	Kanegafuchi Chem Ind. Co Ltd	✓	✓	✓
	EP	1 202 374	A1	05-02-2002	NGK Insulators, LTD			✓
	JP	2002-151150	A2	05-24-2002	Samsung SDI Co Ltd	✓	✓	✓

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	Office	Number	Kind					
	JP	2002 155142 ✓	A2	05-28-2002	Fuji Photo Film Co	✓	✓	✓
	JP	2002- 298913 ✓	A2	10-11-2002	Fuji Photo Film Co	✓	✓	✓
	JP	2002- 343440 ✓	A2	11-29-2002	Fuji Photo Film Co	✓	✓	✓
	JP	2003- 002974 ✓	A2	01-08-2003	Chisso Corp	✓	✓	✓
	WO	03/083971 ✓	A1	10-09-2003	Oh et al.			✓
	WO	03/083970 ✓	A1	10-09-2003	Oh et al.			✓
	WO	03/083972 ✓	A1	10-09-2003	Amine et al.			✓
	WO	03/090299 ✓	A1	10-30-2003	West et al.			✓
	WO	03/083973 ✓	A1	10-09-2003	West et al.			✓
	WO	03/083974 ✓	A1	10-09-2003	Yoon et al.			✓

OTHER DOCUMENTS

Examiner Initials	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, cite and/or country where published
	M. ARMAND, New Electrode Material, Proceedings of the NATO Sponsored Advanced Study Institute on Fast Ion Transport in Solids, Solid State Batteries and Devices, 1972, Belgrate, Italy.
	D. FENTON et al., Complexes of Alkali Metal Ions with Poly(Ethylene Oxide), Polymer, November 1973, 589, 14.
	E. TSUCHIDA et al., Conduction of Lithium Ions in Polyvinylidene Fluoride and its Derivates-I, Electrochimica Acta, 1983, 591-595, 28(5).
	L. HARDY et al., Chloride Ion Conductivity in a Plasticized Quaternary Ammonium Polymer, Macromolecules, 1984, 975-977, 17.
	P. BLONSKY et al., Polyphosphazene Solid Electrolytes, Journal of American Chemical Society, 1984, 6854-6855, 106.
	D. BANNISTER et al., A Water-Soluble Siloxane: Poly(ethylene glycol) Comb Polymer, Journal of Polymer Science: Polymer Letters Edition, 1985, 465-467, 23.
	I. KELLY et al., Poly(Ethylene Oxide) Electrolytes for Operation at Near Room Temperature, Journal of Power Sources, 1985, 13-21, 14.
	D. FISH et al., Conductivity of Solid Complexes of Lithium Perchlorate with Poly[[w-methoxyhexa(oxyethylene)ethoxy]methylsiloxane] ^a , Makromol. Chem., Rapid Commun., 1986, 115-120, 7.

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OTHER DOCUMENTS

Examiner Initials	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, cite and/or country where published
	P. HALL et al. Ion Conductivity in Polysiloxane Comb Polymers With Ethylene Glycol Teeth, Polymer Communications, 1986, 3 pages, 27.
	D.R. MACFARLANE et al., Synthesis and Aqueous Solution Phase Behavior of Siloxane-Poly (Alkylene Glycol) Comb Copolymers, Department of Chemistry, Monash University, Clayton, Victoria, Australia, <i>Polymer Preprints</i> , 1987, 28, 405-406.
	D. FISH et al., Polymer Electrolyte Complexes of ClO ₄ and Comb Polymers of Siloxane with Oligo-oxyethylene Side Chains, British Polymer Journal, 1988, 281-288, 20, 3.
	S. GANAPATHIAPPAN et al., A New Class of Cation Conductors: Polyphosphazene Sulfonates, Macromolecules, 1988, 2299-2301, 21.
	I. KHAN et al., Comblike Polysiloxanes with Oligo(oxyethylene) Side Chains, Synthesis and Properties, Macromolecules, 1988, 2684-2689, 21.
	R. SPINDLER et al., Investigations of a Siloxane-Based Polymer Electrolyte Employing ¹³ C, ²⁹ Si, ⁷ Li, and ²³ Na Solid State NMR Spectroscopy, Journal of American Chemical Society, 1988, 3036-3043, 110.
	R. SPINDLER et al., Synthesis NMR Characterization, and Electrical Properties of Siloxane-Based Polymer Electrolytes, Macromolecules, 1988, 648-654, 21.
	S. GANAPATHIAPPAN et al., Synthesis, Characterization and Electrical Response of Phosphazene Polyelectrolytes, Journal of America Chemical Society, 1989, 4091-4095, 111.
	L. DOMINEY et al., Thermally Stable Lithium Salts for Polymer Electrolytes, Electrochimica Acta, 1992, 1551-1554, 37(9).
	F. ALLOIN et al., Triblock Copolymers and Networks Incorporating Oligo (Oxyethylene) Chains, Solid State Ionics, 1993, 3-9, 60.
	C. ST. PIERRE et al., Lithium-Metal-Polymer Battery for Electric Vehicle and Hybrid Electric Vehicle Applications, www.avestor.com/en/automotive.html , info@avestor.com , 1993, 11 pages.
	G. ZHOU et al., Solvent-Free Cation-Conduction Polysiloxane Electrolytes with Pendant Oligo(oxyethylene) and Sulfonate Groups, Macromolecules, 1993, 2202-2208, 26.
	M. GAUTHIER et al., Large Lithium Polymer Battery Development The Immobile Solvent Concept, Journal of Power Sources, 1995, 163-169, 54.
	K. ABRAHAM et al., Highly Conductive PEO-Like Polymer Electrolytes, Journal of Chemical Materials, 1997, 1978-1988, 9(9).

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--------------------	--	-----------------	--

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OTHER DOCUMENTS

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	M. FURLANI et al., Time Resolved Luminescence and Vibrational Spectroscopic Studies on Complexes of Poly(Ethylene Oxide) Oligomers and Eu(TFSI) ₃ Salt, 11 th International Conference on Solid State Ionics, 1997, 10 pages.		
	J. GNANARAJ et al., Studies on Comb-like Polymer Blend with Poly(Ethylene Oxide) – Lithium Perchlorate Salt Complex Electrolyte, Polymer, 1997, 3709-3712, 38(14).		
	F. GRAY, Polymer Electrolytes, RSC Materials Monographs, UK, 1997, 46-49.		
	S. KOHAMA et al., Alcoholysis of Poly(methylhydrogensiloxane), Journal of Applied Sciences, 1997, 21, 863-867.		
	C. LETOURNEAU et al., Progress in Lithium-Metal-Polymer Battery System for Electric Vehicles, http://www.avestor.com/iactivefiles/evs15.pdf , info@avestor.com, INTELEC, October, 1998, Canada, 1-10.		
	R. HOOPER et al., A Highly Conductive Solid-State Polymer Electrolyte Based on a Double-Comb Polysiloxane Polymer with Oligo(Ethylene Oxide) Side Chains, Organometallics, American Chemical Society, 1999, 3249-3251, 18(17).		
	Z. WANG et al., Thermal, Electrochemical, and Spectroscopic Characterizations of Hyperbranched Polymer Electrolyte, Journal of Electrochemical Society, 1999, 2209-2215, 146(6).		
	M. ANDERMAN et al., Advanced Batteries for Electric Vehicles: An Assessment of Performance, Cost, and Availability, Prepared for State of California Air Resources Board by The Year 2000 Battery Technology Advisory Panel, 2000, i-ix and 60-65.		
	A. REICHE et al., Gel Electrolytes on the Basis of Oligo(Ethylene Glycol) _n Dimethacrylates – Thermal, Mechanical and Electrochemical Properties in Relationship to the Network Structure, Polymer, 2000, 3821-3836, 41.		
	R. HOOPER et al., Highly Conductive Siloxane Polymers, Macromolecules, 2001, 931-936, 34.		
	X. HOU et al., Novel Interpenetrating Polymer Network Electrolytes, Polymer, 2001, 4181-4188, 42.		
	C.F. ROME, The Unique Properties of Silicone at the Service of the Petroleum Industry, Hydrocarbon Asia, 2001, 42-49, 'www.hcasia.safan.com/mag/may-jun01/Tech-Silicone.pdf'.		
	N. KATAYAMA et al., Thermal Stability of Propylene Carbonate and Ethylene Carbonate-Propylene Carbonate-Based Electrolytes for Use in Li Cells, Journal of Power Sources, 2002, 1-6, 4769, http://www.sciencedirect.com/web-editions .		
	K. XU et al., LiBOB as Salt for Lithium-Ion Batteries, Electrochemical and Solid State Letters, 2002, pp. A26-A29, Vol. 5(1).		
	J. ALPER, The Battery: Not Yet a Terminal Case, Science, May 2002, 1224-1226, Vol. 296, www.sciencemag.org.		
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	B. OH et al., New Interpenetrating Electrolyte Network-Type Siloxane Polymer Electrolyte, Electrochemical and Solid State Letters, 2002, E59-E61, 5(11), The Electrochemical Society, Inc., September 11, 2002.
	International Search Report, dated 05-01-2003, received in relation to Application No. PCT/US03/02127.
	International Search Report, dated 07-11-2003, received in relation to Application No. PCT/US03/02128.
	International Search Report, dated 07-11-2003, received in relation to Application No. PCT/US03/08740.
	International Search Report, dated 09-12-2003, received in relation to Application No. PCT/US03/08784.
	International Search Report, dated 10-09-2003, received in relation to Application No. PCT/US03/08779.
	International Search Report, dated 10-09-2003, received in relation to Application No. PCT/US03/08783.
	NICODOM Ltd., Inorganic Library of FT-IR Spectra Inorganics II – Boron Compounds, homepage, website http://www.ftir.cz/INLIB2.html and http://www.ftir.cz/home_page_of_nicodom_sro.htm .

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